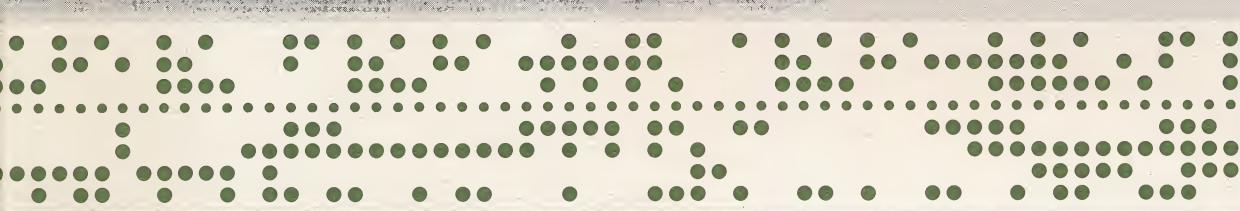


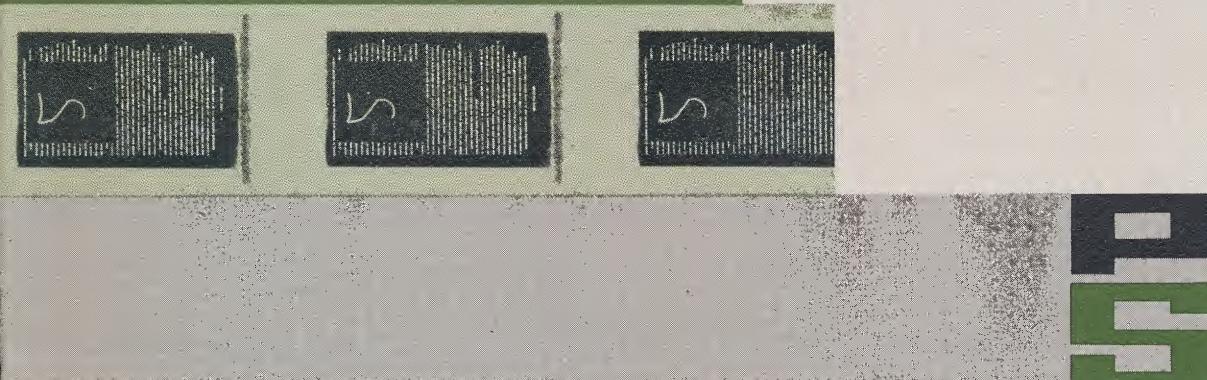
PRESTOSEAL CATALOG

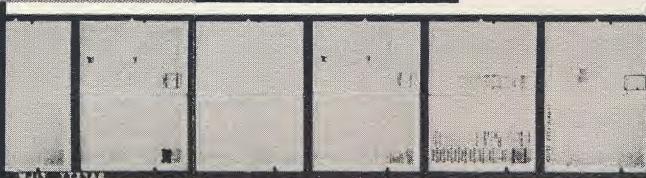
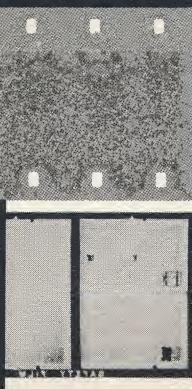


film and tape splicers



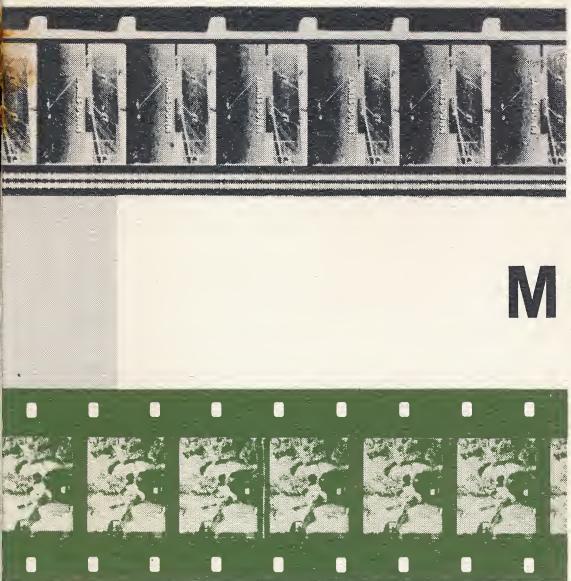
aperture-mounting machines





**PRESTOSEAL
MANUFACTURING CORP.**

37-27 33rd Street, Long Island City, New York



THE MISSING LINK

PRESTOSEAL MANUFACTURING CORP.
37-12 108th Street
Corona 68, New York

Prestoseal Manufacturing Company is in the specialized business of designing and producing equipment for the advancement of efficiency and techniques of data storage.

There are many vehicles for data storage — such as microfilm, paper tape, magnetic tape, and even motion picture film. Prestoseal has pioneered the first successful splicing equipment for all of these materials.

The missing link to high efficiency in data storage has been truly discovered in the Presto Splicer, an apparatus founded on a new basic engineering concept. Today the company has several models of Presto Splicers to meet every splicing need, whether it be splicing Triacetate to Triacetate, Triacetate to Acetate, Polyester base to Polyester base film, or even splicing Triacetate base film with Polyester base film.

The latter represents a significant new conquest of the intermix splicing battle which has been plaguing industry for a long time. The only previous means of splicing these two film types has been by use of pressure-sensitive tapes, which create obvious operational difficulties. After five years of laboratory experimentation Prestoseal finally discovered the key to this intermix splicing problem by the use of thermal-setting adhesive.

Prestoseal was founded by Leonard A. Herzig, a former sound engineer who fathered all the important engineering developments of the company. When Mr. Herzig began his experimenting, the industry had only one method of splicing, namely by the use of cement. This method was not suitable for magnetic or embossed recording tape. Further it had the disadvantages of adding thickness to the tape at the splice area and was a weak bond. Many companies attempted to improve this method. One such attempt was the chemical method, which however took 48 hours to make one splice.

Popular experimentation approach was to attack the heating problem. Mr. Herzig at Prestoseal reversed this approach by attacking the cooling problem. He deduced that the solution he sought lay in gradual cooling at the splice. Thus with the use of low-heat conducting material and specific heat/cool gradients, he with one stroke made tape and film splicing a practical, efficient operation that has far-reaching effects on the data storage and motion picture industry.

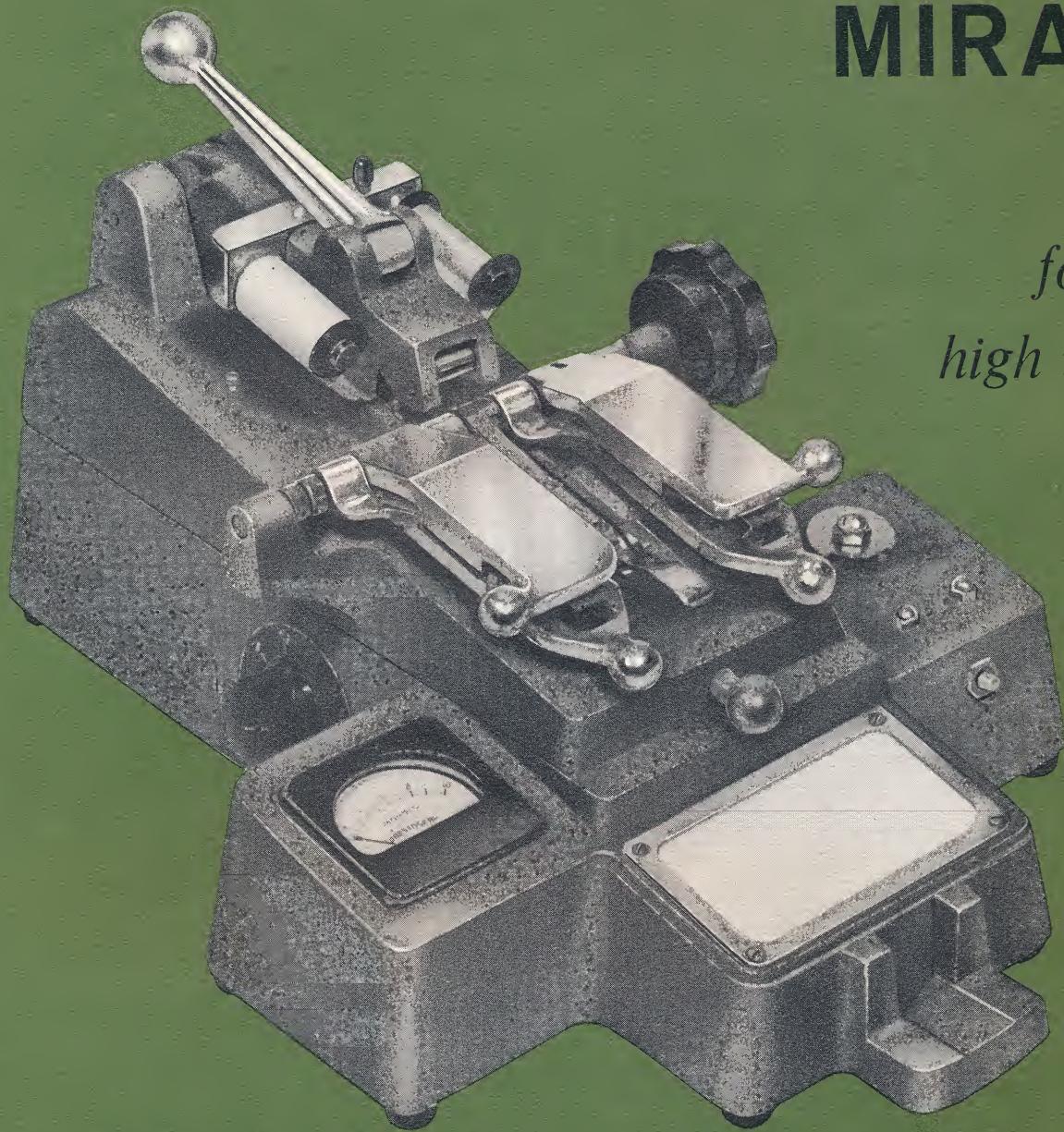
Prestoseal has also recently designed a unique aperture-mounting machine to solve a problem that has frustrated the industry for many years. One of these machines has successfully undergone severe performance tests at a U.S. Government Agency for many months.

When the company was begun in 1947, it was no more than Mr. Herzig's own private research and development laboratory. With steady growth since that time, Prestoseal has expanded its people, plant, development and manufacturing facilities several times to meet the increasing acceptance and demand for its unique products. Mr. Herzig holds a number of patents as a result of his research in this engineering area.

Prestoseal today is an "in-depth" engineering/production organization with a continuing research and development program. Its precision splicing equipment is used wherever tape and film are used, including missile tracking stations, commercial data processing centers, film studios, and pipe-line control centers.

PRECISION SPLICERS

MIRACLE



*for
high utility*

SPECIFICATIONS:

Power 110/120V. — 60 cycles. Power Consumption — approx. 100 watts. Primary Circuit fused. (Operation on 220V. or 50 cycles can be provided at a slight increase in cost.)

Editing light provided.

Aluminum alloy and bronze castings used throughout.

Precision full-view ammeter.

Synchronous motor timer with automatic reset. Timing interval clearly visible and easily set. Operation is

started by merely pressing starting button. Accurate to a fraction of a second.

Foundation base contains all electrical and timing components, except the heating element. INTERCHANGEABLE heads for either 16mm or 35mm fit the base. Time required to change heads, approximately 30 seconds. No tools necessary.

Height 9", width 11½", length 17", net weight 17½ lbs.

Gross weight: Domestic packed 22 lbs.

Hard-baked finish.

for every film and tape need

PRESTO-SPlicer

MIRACLE Presto-Splicer is the only professional-type butt-weld splicer which fuses film or tape back to its original condition — end to end. It splices all types of safety film (as well as polyester base), magnetic tape or striped film in $2\frac{3}{4}$ seconds. Some of the MIRACLE Model's important features are

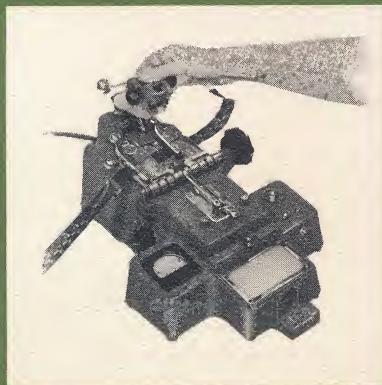
- No added thickness results
- Frame line splicing
- Splices MAGNETIC film or STRIPED film
- No scraping of emulsion
- No adhesives
- No cement used or brushes to dry out
- No drying out of film; automatically replasticized when spliced

- Perfect film alignment
- No out-of-focus frames, as end-to-end butt-weld splicing does not add to film thickness
- Perfect film alignment allows darkroom splicing without lights
- Permanent butt-weld splicing will hold under all conditions where the film itself will hold
- Mends broken 16mm sprocket holes — no lost picture

OPERATION OF MIRACLE PRESTO-SPlicer



1 Clamp the film and cut.



2 Flip clamp to heating position.



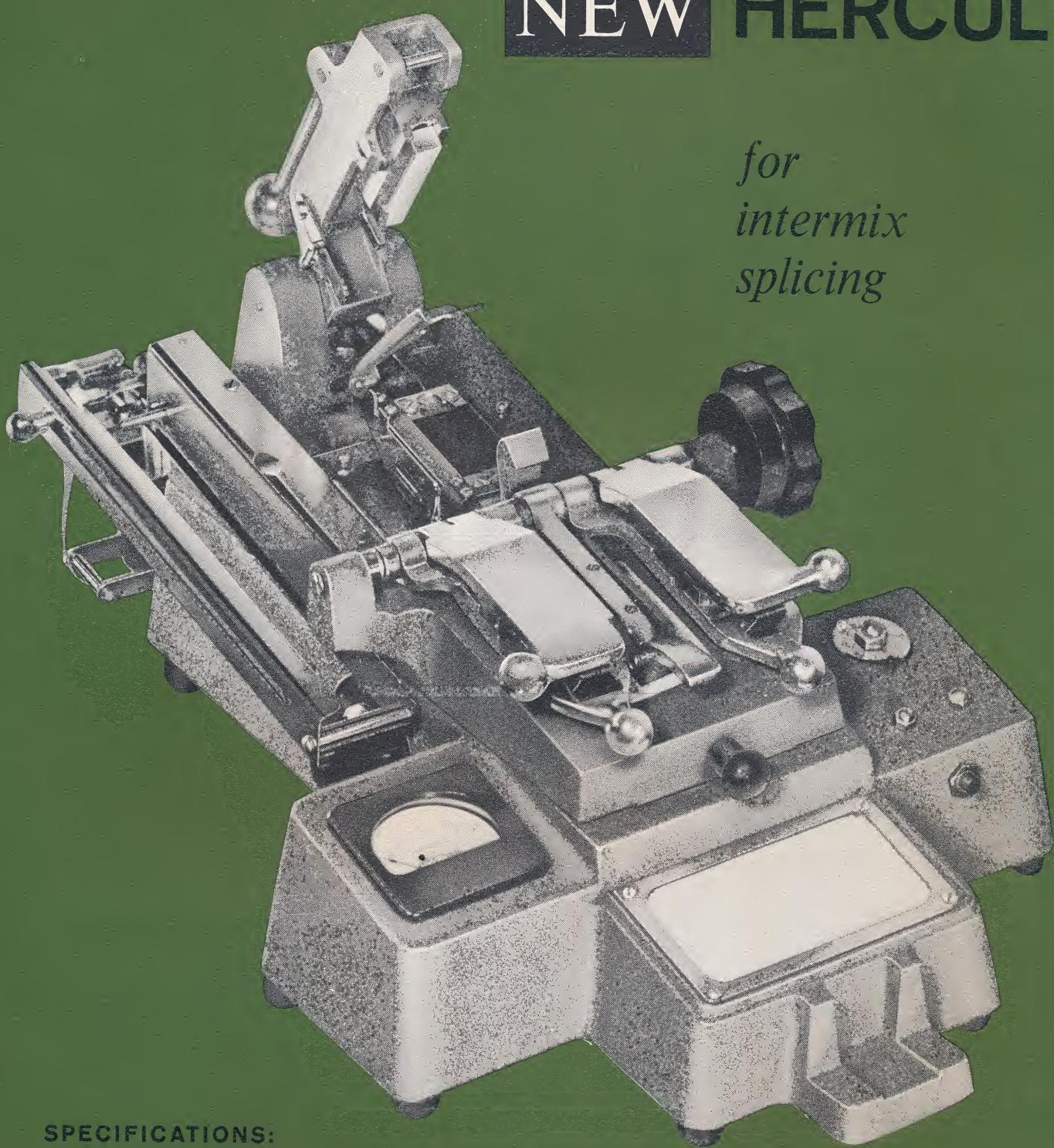
3 Apply pressure and push automatic start button.



4 PRESTO — fused end to end back to its original condition.

NEW HERCULES

*for
intermix
splicing*



SPECIFICATIONS:

Dimensions: Height 9", Width 11½", Depth 18½".

Weight: 17½ lbs. net.

Current: 110-120VAC, 60 cps, **Power Consumption:** Approx. 100 watts. Primary Circuit fused. (Operation on 220V. or 50 cycles can be provided at a slight increase in cost.)

Tape Capacity: Approx. 605 feet.

Types Available: for one-side or two-side splicing.

SPLICER

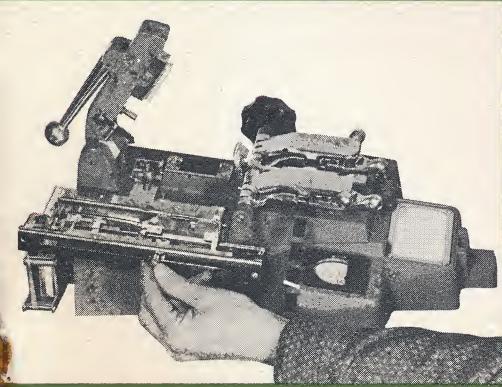
The new Hercules model is a butt splicer . . . the only known device that will splice effectively *all* presently used film types. The Hercules represents a final triumph in conquering the intermix splicing problem; it butt-splices microfilm, motion picture film, Tri-acetate, Mylar®, Polyester, safety base, paper, or any other type of tape or film. It produces precise indivisible butt-splices that are permanent and stronger than the film itself.

How it works: This automatic splicing method applies heat and pressure and a strip of high-temperature thermal setting tape sliver to both sides (or one side only) of the film. The Hercules Model has an adapter which automatically precuts and positions the

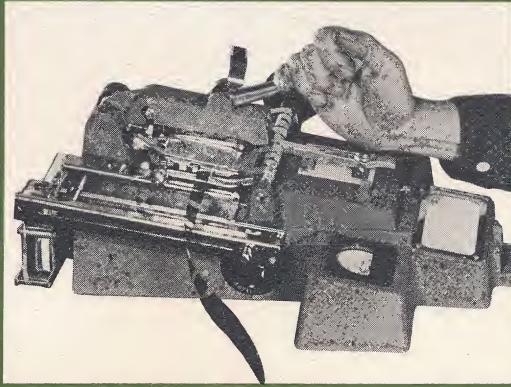
slivers. The sliver is used for splicing the dissimilar materials. Adapter also permits the sliver to be positioned on both sides of the film. Heat and pressure compresses the sliver into the film and produces a splice thickness of only .011 in. that has a greater tensile strength than any other part of the film. Complete splice takes only 15 seconds.

Application of this bonded splice has produced positive advantages in the microfilm field, dark-room processing, and in the maintenance of permanent records. Other successful applications include all functions of magnetic tape, punched paper tape, and motion picture films.

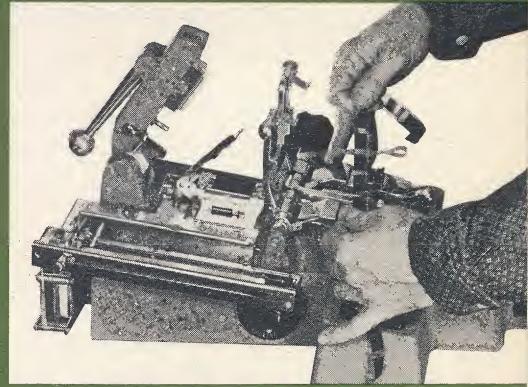
OPERATION OF HERCULES PRESTO-SPLICER



1 Slide handle toward you as far as it will go. This brings the special Mylar® tape, with thermal-setting adhesive into position.



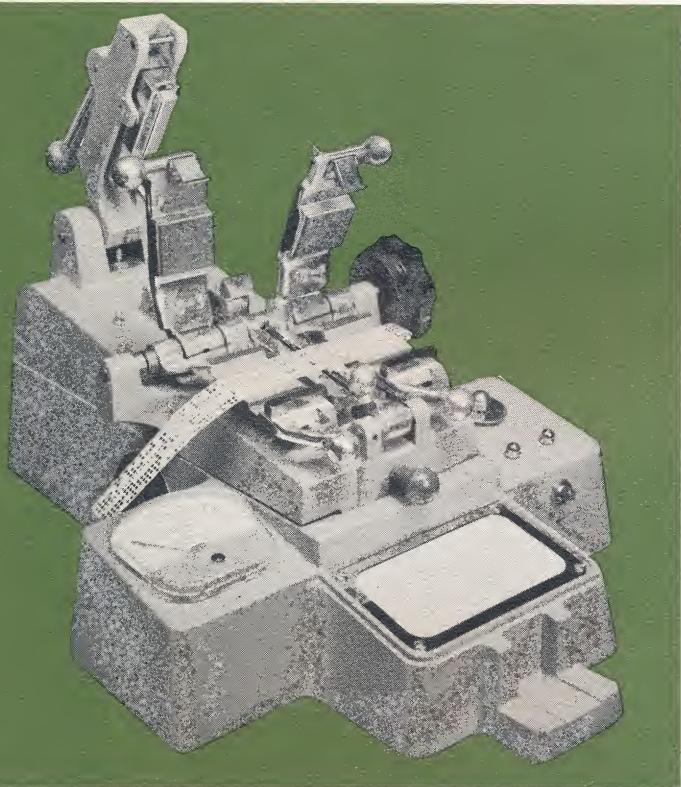
2 Splice in the usual Prestoseal manner. Heat sets the adhesive but does NOT disarrange the molecular structure of the tape. The bond is PERMANENT, stronger than the film itself.



3 Remove the splice from the Presto-Splicer and use the trimmer to remove the surplus tape. The entire procedure is so simple, so positive that no special training is needed for your existing personnel.

for precision splicing of paper and magnetic tapes

ONLY THE PRESTO-SPlicer CAN FUSE PAPER TO PAPER IN PERFECT ALIGNMENT... EASY TO READ OUT



Presto-Splicers are especially adapted for precision splicing of paper and magnetic tape. These PRESTO-SPLICERS electrically fuse the tape instantly . . . in perfect alignment without paste or cement and allow read-out. Special indexing prongs assure perfect alignment every time where material is perforated.

Splice is either butt-welded or over-lapped according to the material being spliced. Paper tape can be only over-lapped; magnetic tape can be spliced by either method.

The PRESTO-SPlicer has many unique advantages:

- Permits easy, accurate editing of tape for deletions or additions.
- Splices all 5 to 8 channel paper tape.
- Splices all $\frac{1}{2}$ " to $1\frac{1}{4}$ " Mylar® or acetate base magnetic tape.
- Perfect tape alignment assured everytime.
- No sticky pastes or cements used.
- Fuses electrically.
- Permanent butt-weld or over-lap splice will last under all conditions.
- Takes only two seconds to fuse splice.
- Automatic time cycle prevents mistakes or damage to the tape.
- Operation for either paper or magnetic tape can be accomplished by merely changing the head of the splicer, without tools, in less than thirty seconds.

SPECIFICATIONS:

- Height 9", Width $11\frac{1}{2}$ ", Depth 17", Weight $17\frac{1}{2}$ lbs. Gross weight — domestic packed 22 lbs.
- Power 110/120V — 60 cycles. Power Consumption — approx. 100 watts — primary circuit fused. (Operation on 50 cycles or 220V can be provided at a slight increase in cost).
- Editing light — 2" x $3\frac{1}{2}$ ".
- Precision full-view ammeter.
- Synchronous motor timer with automatic reset. Timing interval clearly visible and easily set. Operation is started by merely pressing starting button. Accurate to a fraction of a second.
- Base foundation contains all electrical and timing components, except the heating element. Interchangeable heads for either paper or magnetic tape fit the base. Time required to change heads approximately 30 seconds. No tools required.
- Hard-baked wrinkle finish.

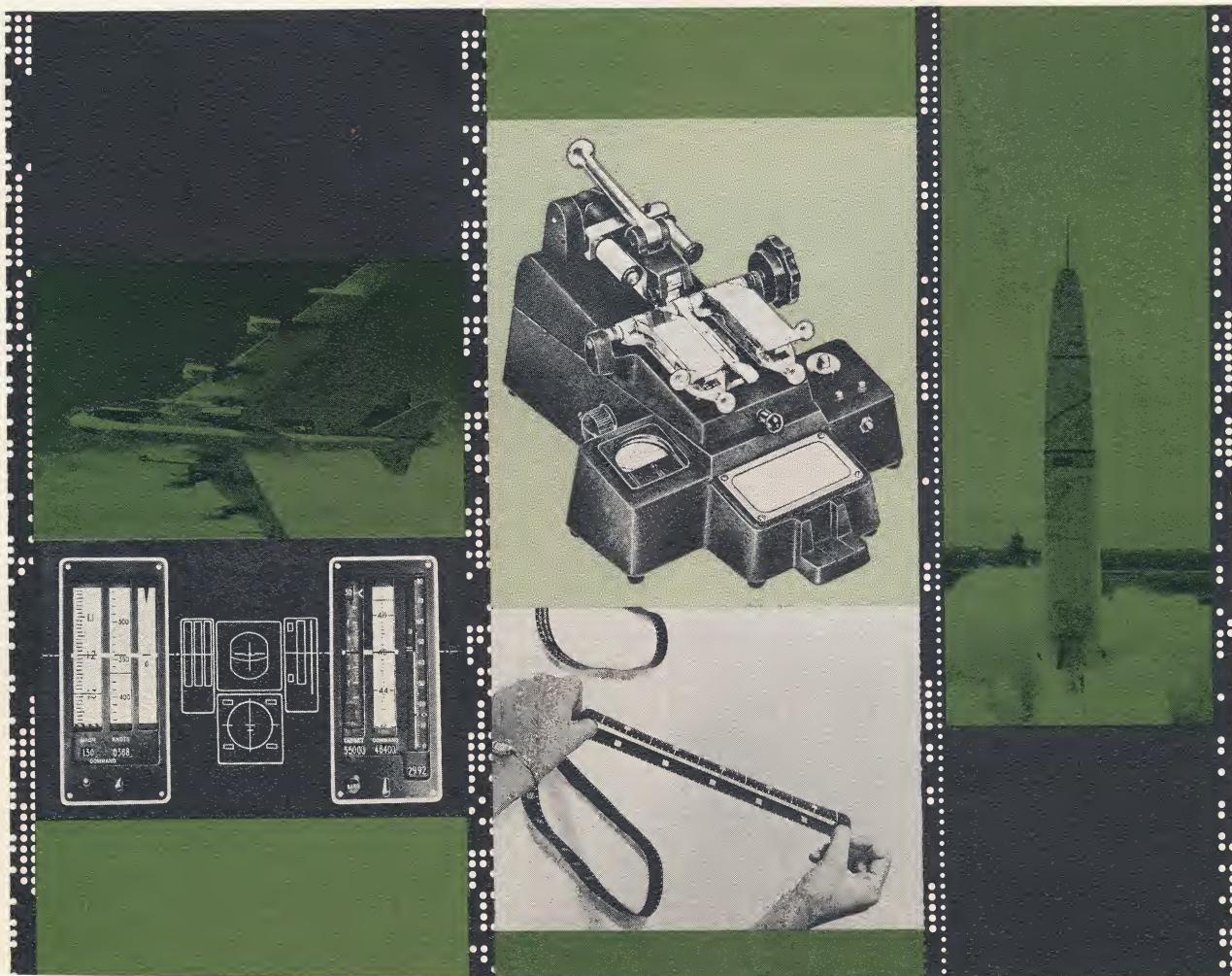
CUSTOM SPLICERS

for precise applications

Prestoseal engineers have accomplished many unusual adaptions of the basic Presto-Splicer concept to meet exacting requirements in telemetering and data retrieval, in endless-loop guidance systems and instrumentation. Here failure-proof tape splicing is an absolute necessity . . . as well as accurate lateral end-alignment and minimum ridge thickness. There is no other tape splicer in the world today, except the PRESTO-SPLICER that meets all these requirements without compromise.

Customized PRESTO-SPLICERS, modified for specific critical splicing of magnetic and digital tapes to high tolerances will (1) cut at the exact spot on the tape, (2) seal the ends in precise lateral alignment, (3) produce minimum ridge at the splice, and (4) meet rigid length tolerances. The PRESTOSEAL splicer not only satisfies all the requirements but produces a splice that is stronger than any other spot on the tape.

Prestoseal engineers will welcome your particular splicing problem.



For Microfilm Cards

NEW AUTOMATIC FILM MOUNTER

The enormity of the "search" problem related to masses of extant data in the scientific, educational, engineering — for that matter all fields of research — has been the mother for the invention of several types of information retrieval or I.R. systems. One such system employs microfilm in aperture cards, i.e., it uses conventional punched cards, into which a window, or aperture, has been cut to hold a microfilm picture. Searching is done by standard sorting and collating machine.

For some time, the lack of an adequate machine to mount the microfilm units on the cards permanently and automatically hindered the effectiveness and use of these I.R. systems.

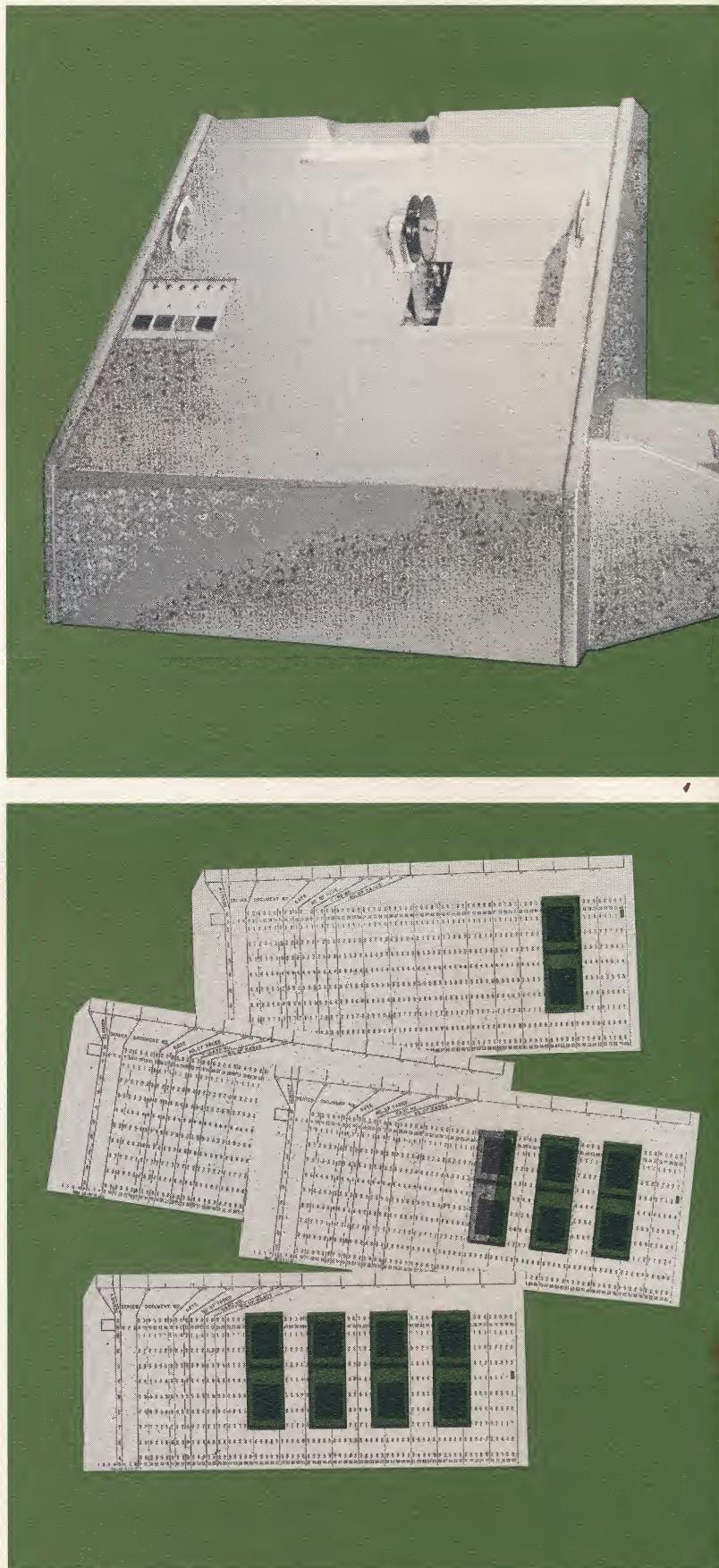
Prestoseal, after long research and development now has a proven Automatic Film Mounter which is simple to operate and produces a permanent bond.

Prestoseal's Automatic Film Mounter precisely cuts one to four 16mm film strips in exact relation to cut openings, or apertures, in a specially designed EAM card called the Presto Card. Alignment for cutting is performed electronically. It then mounts the film accurately and permanently on the cards. Exclusive, patented, EAM cards can be machine sorted and used for mounting of 1 to 4 apertures without the need of selection of documents to be added.

The Presto Card contains four 16mm window-shaped depressed areas coated with a high-temperature-activated adhesive material. Before use in the mounter the cards may be prepunched with coding information on standard punch card equipment. Regardless of whether other code information is required, a single punch, for example, in column 80 in row 1, 2, 3, or 4 will indicate the number of apertures needed in a particular card.

Unmounted cards are arranged in sequence to match film on the roll. The machine automatically punches the number of apertures, i.e. indicated in column 80, and positions each pair of images symmetrically within the aperture. All operations of this machine are completely automatic, and require no operator attention other than loading the cards and film and removing the completed cards. The film is secured to the card by the application of heat and pressure, under closely controlled conditions. An external control is provided for controlling the amount of heat, to suit local conditions.

Single aperture cards and associated mounters for 35mm to meet D.O.D. standards will also be available; inquiries welcomed.



PRESTO-SPLICER MODELS

MIRACLE MODELS

Microfilm and Magnetic Tape (Non-perforated)

- 100.1 16mm Splicer for Microfilm, Head & Base complete
- 100.2 35mm Splicer for Microfilm, Head & Base complete
- 100.3 16mm Adapter Head only, to adapt 35mm Machine for 16mm
- 100.4 35mm Adapter Head only, to adapt 16mm Machine for 35mm
- 100.5 Combination for 16mm & 35mm Microfilm, complete
- 100.6 70mm Splicer for Microfilm, Head & Base complete

Motion Pictures (Standard Perforations)

- 101.1 16mm Splicer for Motion Picture & Magnetic Film, Head & Base complete
- 101.2 35mm Splicer for Motion Picture & Magnetic Film, Head & Base complete
- 101.3 16mm Adapter Head only, to adapt 35 mm Machine for 16mm
- 101.4 35mm Adapter Head only, to adapt 16mm Splicer to 35mm
- 101.5 Combination for 16mm & 35mm Motion Picture & Magnetic Film
- 101.6 70mm Standard 35mm Perforations, complete
- 101.65 65mm Standard 35mm Perforations, complete
- 101.7 Combination 16mm, 35mm & 70mm Perforated, complete with case

HERCULES MODELS

Microfilm (Non-perforated)

- 1000.1 16mm Hercules Splicer for Microfilm
- 1000.2 35mm Hercules Splicer for Microfilm
- 1000.3 16mm Hercules Adapter Head only, to adapt 35mm Machine to 16mm
- 1000.4 35mm Hercules Adapter Head only, to adapt 16mm Machine to 35mm
- 1000.5 Combination Hercules Splicer for 16mm & 35mm Microfilm

Motion Picture & Magnetic Film (Perforated)

- 1001.1 16mm Hercules Splicer for Motion Picture & Magnetic Film
- 1001.2 35mm Hercules Splicer for Motion Picture & Magnetic Film
- 1001.3 16mm Hercules Adapter Head only, to adapt 35mm Machine to 16mm
- 1001.4 35mm Hercules Adapter Head only, to adapt 16mm Machine to 35mm
- 1001.5 Combination Hercules Splicer for 16mm & 35mm Motion Picture & Magnetic Film

PAPER TAPE AND MAGNETIC TAPE MODELS

- 200.1 5 to 8 Channel Paper Tape Splicer, Head & Base Complete
- 200.2 5 to 8 Channel Paper Tape Adapter Head only, to adapt #300.1 to combination Paper & Magnetic Tape Splicer
- 300.1 Magnetic Tape Splicer, from 1/2" width to 1 1/4", overlap & butt weld combination, Head & Base Complete
- 300.5 Combination 5 to 8 Channel Paper Tape & Magnetic Tape Splicer, overlap & butt weld, (2 Heads & 1 Base complete)
- 300.6 Magnetic Tape Splicer from 1" width to 2 3/4", overlap & butt weld combination, Head & Base Complete
- 400.1 Magnetic Tape Splicer from 1/2" width to 1 1/4", butt weld only, Head & Base Complete
- 400.5 Combination 5 to 8 Channel Paper Tape & butt weld Magnetic Tape Splicer 1/2" width to 1 1/4" (2 Heads & 1 Base Complete)
- 400.6 Magnetic Tape Splicer from 1" width to 2 3/4" butt weld only, Head & Base Complete

USERS OF PRESTOSEAL EQUIPMENT

PARTIAL LIST

INDUSTRY

Microfilm

Remington Rand, U.S.A.
Eastman Kodak Co., Rochester, N. Y.
Genealogical Society, Salt Lake City, Utah
Land Title Insurance Co., Riverside, Calif.
Douglas Aircraft Corp., Santa Monica, Calif.
Kearfott Co., Inc., Little Falls, N. J.
Bradshaw & Harman, Austin, Texas
Microinsurance Co., Philadelphia, Pa.
Magnolia Petroleum Co., Dallas, Texas
Public Service Gas & Electric, Newark, N. J.

Motion Picture

Goodyear Aircraft Corp., Akron, Ohio
General Electric Company, Syracuse, N. Y.
General Motors Corp., Detroit, Mich.
Andre Debie Inc., N. Y. C., N. Y.
Eastman Kodak Co., Rochester, N. Y.
Soundac Productions, Miami, Fla.
Radio Corporation of America, Princeton, N. J.
Cinerama, Oyster Bay, L. I., N. Y.
Westcoast Films, San Francisco, Calif.
Color Illustrations Inc., N. Y. C., N. Y.

PROCESSORS & LABORATORIES

Microfilm

Atlas Microfilm, Philadelphia, Pa.
Atlantic Microfilm, Pearl River, N. Y.
Graphic Microfilm, N. Y. C., N. Y.
Microfilm Company of Calif., Los Angeles, Calif.
C. D. Lockwood, Houston, Texas
Recordak Corp. N. Y. C., N. Y.—Chicago, Ill.
Precision Microfilm Corp., Detroit, Mich.
Dakota Microfilm, Denver, Colorado
Micro Photo, Inc., Cleveland, Ohio
Microfilm Corp. of Cleveland, Cleveland, Ohio
General Microfilm, Cambridge, Mass.

Motion Picture

Color Service Co., Inc., N. Y. C., N. Y.
Titra Film Labs, N. Bergen, N. J. & N. Y. C.
Awon Film Supply, N. Y. C., N. Y.
Lido Film Service, Island Park, L. I., N. Y.
Rockwell Color, Cambridge, Mass.
Colorfilm, Inc., Mamaroneck, N. Y.
Technicolor Motion Picture Corp.,
Hollywood, Calif.

TELEVISION & RADIO

KFVS-TV, Cape Giradeau, Mo.
WPRO-TV, Providence, R. I.
WNCT-TV, Greenville, S. C.
KPRC-TV, Houston, Texas
WHAM, Rochester, N. Y.

WSM, Nashville, Tenn.
KGW, Portland, Oregon
N.B.C., New York City
C.B.S., New York City

FOREIGN

National Film Board of Canada
Colour Film Services Ltd., London
Government of the Province of Alberta, Canada
Gevaert Photo-Producten, Belgium
Remington Rand, Caracas, Venezuela

Commonwealth of Australia
Vatican City
New Zealand Government Trade Commission
Manila Broadcasting Company, Philippines
Besa y Cia, Ltda., Santiago, Chile

FEDERAL GOVERNMENT & STATE

Microfilm

Federal Bureau of Investigation
U. S. Treas., Bureau of Public Debt
Social Security Administration
Central Intelligence Agency
Defense Printing Service
Department of Justice
Department of State
General Services Administration
Immigration & Naturalization Serv.
Library of Congress
National Archives
National Bureau of Standards
County of San Mateo, Calif.
Santa Clara County Recorder, Calif.
City of Philadelphia, Pa.
City of Baltimore, Md.
Veterans Administration, Wash., D. C.
United Nations, Reproduction Sec., N. Y. C.
State Department of Education, Atlanta, Ga.
U. S. Weather Bureau

Motion Picture

U.S.A.F.

Eglin AFB, Florida
Brookley AFB, Ala.
Hill AFB, Utah
McChord AFB, Wash.
McClellan AFB, Calif.
Shaw AFB, S. C.
Wright-Patterson AFB, Ohio
Lookout Mt., Los Angeles, Calif.

Dept. of Army

Aberdeen Proving Grounds, Md.
Army Pictorial Center, L. I. C., N. Y.
Army Signal Supply, Phila., Pa.
Defense Supply Service, Wash., D. C.
Fort Bliss, Texas
Fort Benjamin Harrison, Ind.
Fort Sheridan, Ill.
Redstone Arsenal, Huntsville, Ala.
Warrenton Training Center, Va.
White Sands Proving Grounds, N. Mex.

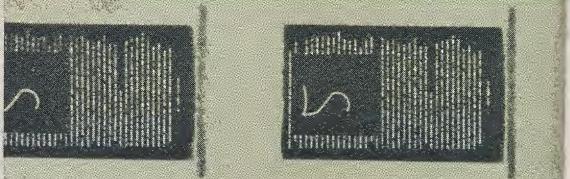
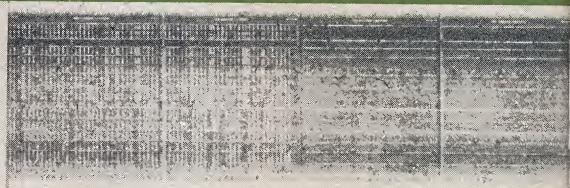
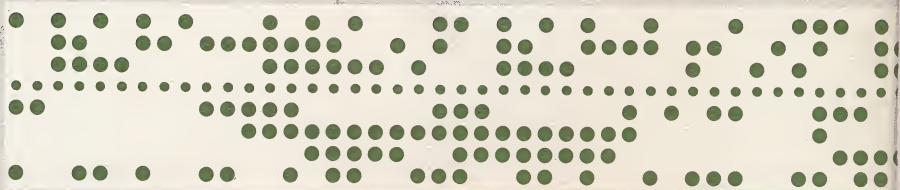
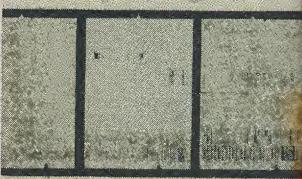
U.S. Navy

Naval Air Development Center
Naval Air Missile Center
Naval Bureau of Ships
Naval Ordnance Test Station
Navy Underwater Test Station
Naval Photographic Center
U. S. Marine Corp., Quantico, Va.

OTHER

Elmhurst General Hospital, N. Y.
National Cash Register Co.,
New York City Public Library
City of Chicago, Board of Education
Massachusetts Institute of Technology
Alabama Polytechnic Institute
Florida State University
Louisiana Polytechnic Institute
Virginia Polytechnic Institute

University of California
Denver
Hawaii
Illinois
Mississippi
Texas
Puerto Rico
Ohio State University
Purdue University



PRESTOSEAL MANUFACTURING CORP.

37-27 108th Street Long Island City, N.Y. 11368
37-12 108th STREET CORONA 68, N.Y. Illinois Z-5566

Prestoseal MANUFACTURING CORP.
 37-12 108th STREET ■ CORONA, NEW YORK 11368 ■ (212) ILLINOIS 7-5566 ■ CABLE "PRESTOSEAL"

Presto Splicers Price List, Effective April 1, 1964 (F.O.B. Corona, New York)

MICROFILM AND NON-PERFORATED FILM

MIRACLE MODELS (Butt-Weld Splicer only):

100.1 16mm Splicer for Microfilm
 (Head & Base complete) --- \$ 565.00

100.2 35mm Splicer for Microfilm
 (Head & Base complete) --- 565.00

100.3 16mm Adapter Splicer Head
 only, to adapt 35mm Splicer
 for 16mm ----- 296.00

100.4 35mm Adapter Splicer Head
 only, to adapt 16mm Splicer
 for 35mm ----- 296.00

100.5 Combination Splicer for 16mm
 & 35mm Microfilm, complete
 (2 Heads & 1 Base) ----- 861.00

100.6 70mm Splicer for Microfilm
 (Head & Base complete) --- 773.00

100.7 Combination Splicer for 16mm,
 35mm & 70mm Microfilm, com-
 plete with case (3 Heads &
 1 Base) ----- 1,465.00

SD60-114S Presto Sealing Tape for "Hercules" Splicer, per cartridge ----- \$7.50
 (Material for 1000 splices)

HERCULES MODELS (Butt Reinforced Splicer only):

1000.1 16mm Splicer for Microfilm
 (Head & Base complete) --- \$ 794.00

1000.2 35mm Splicer for Microfilm
 (Head & Base complete) --- 794.00

1000.3 16mm Adapter Splicer Head
 only, to adapt 35mm Splicer
 for 16mm ----- 485.00

1000.4 35mm Adapter Splicer Head
 only, to adapt 16mm Splicer
 for 35mm ----- 485.00

1000.5 Combination Splicer for 16mm
 & 35mm Microfilm, complete
 (2 Heads & 1 Base) ----- 1,279.00

Prestoseal MANUFACTURING CORP.

37-12 108th STREET ■ CORONA, NEW YORK 11368 ■ (212) ILLINOIS 7-5566 ■ CABLE "PRESTOSEAL"

February 2, 1966

Mr. T. Nelson
Systems Consultant
Box 1546
Poughkeepsie, New York

Dear Sir:

We are in receipt of your inquiry concerning our Prestoseal Microfilm Splicers. I am sincerely glad of this opportunity to enclose descriptive literature and price schedules for your consideration.

Prestoseal manufactures two types of microfilm splicers. The Miracle Model is a patented thermal butt-weld machine producing a splice that welds the film together between the frame lines, completely eliminating cements or pressure sensitive adhesives. Thermal butt-welding is a process that splices together microfilm with no added thickness, no loss of documentation and retains perfect film alignment.

May I at this time, call your attention to the latest National Bureau of Standards report on Archival Microfilm, Technical Note 261, an excerpt of Page 20, which I have enclosed.

The second type of machine manufactured by Prestoseal is the Hercules Model. This machine produces a butt-weld Mylar reinforced splice which is as strong as the film itself. The Mylar reinforcing sliver material measures .106 inches wide and .002 inches in thickness. When compressed under the patented Prestoseal heat and pressure method, total added thickness of the splice is approximately .003 inches. There is no loss of documentation because the splice falls between the frame lines of the film. The Mylar sliver is compatible with all types of film base materials, and will conquer the intermix splicing problems.

We will be happy to send you any additional information or sample splices to illustrate the advantages and economies of our splicer compared with any method you are now using or contemplate using.

Very truly yours,

Stanley Rudolph
Stanley Rudolph
Director of Sales



SR/jls